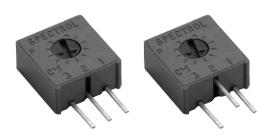
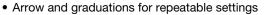
Vishay Spectrol

## 3/8" Square (10 mm) Single-Turn Cermet Trimmer



The Model 63 cermet trimmer is available in several pin configurations for top or side adjustment and with a choice of Knob styles for finger setting. Quick adjustment is achieved with multi-finger wiper and the standard resistance range is between 100  $\Omega$  and 2 M $\Omega$  with a tolerance of  $\pm$  10 %.

#### **FEATURES**

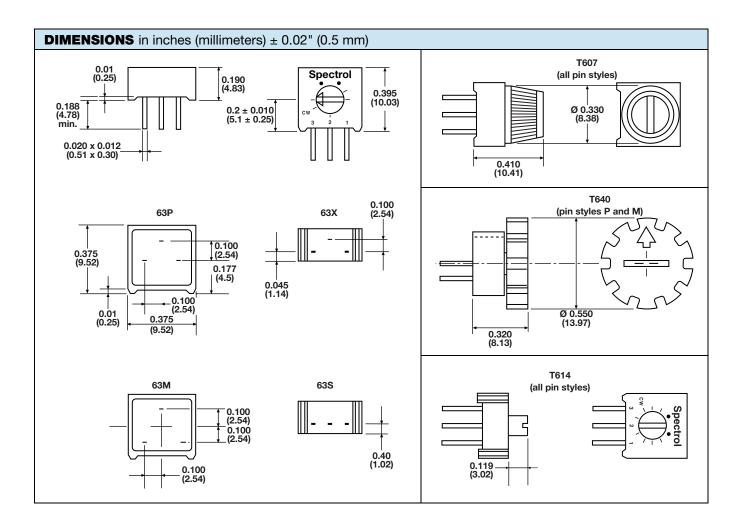




· "O" ring seal for solvent and aqueous washing

RoHS COMPLIANT

- Rigid board mounting achieved with pins secured in housing
- Multi-finger wiper for better contact resistance
- Solid end stop
- Tests according to CECC 41000 or IEC 60393-1
- Material categorization: For definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>





# Vishay Spectrol

ELECTRICAL SPECIFICATIONS					
Effective travel	270° nominal				
Resistance range	100 $\Omega$ to 2 M $\Omega$				
Resistance tolerance	± 10 %				
End resistance	2 Ω or 1 % whichever is greater				
Temperature coefficient of resistance (typical)	± 100 ppm/°C				
Power rating	0.5 W at + 70 °C derated linearly to 0 W at 125 °C maximum voltage not to exceed 250 V				
Circuit diagram	$ \begin{array}{c} a \\ \downarrow \\ (1) \end{array} $ $ \begin{array}{c} b \\ \downarrow \\ (2) \end{array} $ $ \begin{array}{c} c \\ (3) \end{array} $				
Dielectric withstand voltage	1000 V <sub>AC</sub> at sea level; 250 V <sub>AC</sub> at 80 000 ft (24 000 m)				
Insulation resistance (500 V <sub>DC</sub> )	1000 MΩ minimum				
Contact resistance variation	1 % or 1 $\Omega$ , whichever is greater				

MECHANICAL SPECIFICATIONS					
Mechanical travel	300° ± 50				
Starting torque	35 mNm max.				
Weight	0.03 oz. (0.85 g) max.				
Resistance element	Cermet				
2 terminal adjustability	± 0.15 % of RT				
3 terminal adjustability	± 0.05 % of applied voltage				
Terminals	Pure Sn (code e3)				

ENVIRONMENTAL SPECIFICATIONS					
Temperature range	- 55 °C to + 125 °C				
Climatic category	55/125/21				
Sealing	IP64				

PERFORMANCES									
TESTS	CONDITIONS	MAX. (R)	CHANGE PER CECC		PER IEC	PER MIL			
			V <sub>AB</sub> /V <sub>AC</sub>	41100	PER IEC	PEN WILL			
Vibration	98 m/s <sup>2</sup> , 10 Hz to 500 Hz	1 %	2 %	(PARA 2.3.2)	Test FC (IEC 6-2-6)	Method 204			
Electrical endurance	1000 h	3 %	-	(PARA 2.5.16)	=	No equiv.			
Soldering	-	-	-	(PARA 2.3.7)	Test TB (IEC 68-2-20)	Method 208			
Resistance to heat	-	1 %	-	(PARA 2.3.7)	Test B (IEC 68-2-20A)	Method 210			
Damp heat steady state	21 days	3 %	-	(PARA 2.1)	Test C (IEC 68-2-3)	Method 103			
Mechanical life	200 cycles	3 %	-	-	Method 2	-			
Terminal strength	2.2 lbs. (1 kg)	min.	-	-	-	-			

#### **MARKING**

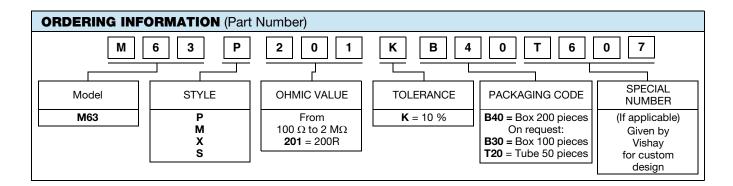
- Vishay trademark
- Model
- Resistance value
- Tolerance
- Date code
- Terminal identification

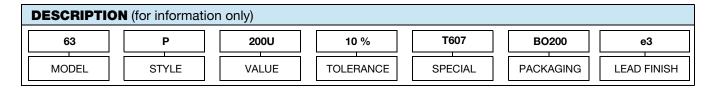


## Vishay Spectrol

#### **PACKAGING**

- In box of 200 pieces code B40 (BO200)
- On request : In box of 100 pieces code B30 (BO100) In tube of 50 pieces code T20 (TU50)







### **Legal Disclaimer Notice**

Vishay

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### **Material Category Policy**

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

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